CLAIMS

1. An image display device comprising:

a main body that can be worn on the head of a user;

right-eye display means for displaying a predetermined image, said right-eye display means being provided on or in said main body in such a manner that said image is blurred or beyond the visible range of the right eye of said user when said user wearing said main body on his or her head looks straight ahead, and that said image is caught by the right eye of said user when said user moves his or her straight-looking right eye away; and

left-eye display means for displaying a predetermined image, said left-eye display means being provided on or in said main body in such a manner that said image is blurred or beyond the visible range of the left eye of said user when said user wearing said main body on his or her head looks straight ahead, and that said image is caught by the left eye of said user when said user moves his or her straight-looking left eye away;

good visibility being obtained for both eyes when said user wearing said main body on his or her head looks straight ahead,

said right-eye display means and/or said left-eye display means being provided in such a manner that they/it can be positioned and fixed to said main body at a certain position or positions suited for the right and left eyes of said user.

2. The image display device as claimed in Claim 1, wherein said right-eye display means and said left-eye display means are provided in such a manner that they can be positioned in a right-and-left direction and fixed depending on the distance between the eyes of

said user.

3. The image display device as claimed in Claim 1, wherein each of said right-eye display means and said left-eye display means comprises at least a display screen on which images are shown and an optical system to guide an image shown on said display screen to the eye(s) of said user, each of said right-eye display means and said left-eye display means being formed as an integrated unit.

4. The image display device as claimed in Claim 3, wherein said right-eye display means and said left-eye display means, each of which is formed as an integrated unit, are provided in such a manner that they can be positioned in a right-and-left direction and fixed depending on the distance between the eyes of said user.

5. The image display device as claimed in Claim 3, wherein said optical system comprises a lens for focusing an image displayed on said display screen to the retina of the right or left eye of said user,

said lens being replaceable with another lens according to the vision of the right or left eye of said user in order to appropriately focus said image to the retina of the right or left eye of said user.

6. The image display device as claimed in Claim 3, wherein said optical system comprises a single lens for focusing an image displayed on said display screen to the retina of the right or left eye of said user,

said lens being provided in such a manner that it can be

positioned and fixed at a certain position along an optical path between said display screen and the retina according to the vision of the right or left eye of said user in order to appropriately focus said image to the retina of the right or left eye of said user.

7. The image display device as claimed in Claim 1, wherein said main body has a shape of glasses.

8. The image display device as claimed in Claim 7, wherein said main body comprises a glasses frame having lower segments corresponding to the right and left eyes,

said right-eye display means being provided on or in said lower segment of said glasses frame that is corresponding to the right eye whereas said left-eye display means being provided on or in said lower segment of said glasses frame that is corresponding to the left eye.

9. The image display device as claimed in Claim 7, wherein said main body is fitted around lenses of said glasses for the right and left eyes,

said right-eye display means being provided at a lower end of the lens of said glasses for the right eye whereas said left-eye display means being provided at a lower end of the lens of said glasses for the left eye.

10. The image display device as claimed in Claim 3, wherein said main body comprises right-eye holding means and left-eye holding means for firmly holding, at appropriate positions, said right-eye

display means and said left-eye display means each of which is formed as an integrated unit.

11. The image display device as claimed in Claim 10, wherein each of said right-eye holding means and said left-eye holding means comprises two sandwich-holding plates that are arranged up and down in parallel to each other along the length thereof,

each of said right-eye display means and said left-eye display means being provided in such a manner that they can be positioned in a right-and-left direction and fixed depending on the distance between the eyes of said user by means of holding said right-eye display means or said left-eye display means, each of which is formed as an integral unit, between said sandwich-holding plates at an appropriate position along the length thereof.

12. The image display device as claimed in Claim 11, wherein each of said right-eye holding means and said left-eye holding means comprises an elastic body that is arranged along said length in at least one of said two sandwich-holding plates.

13. The image display device as claimed in Claim 10, wherein

said right-eye display means is provided in such a manner that said image is caught by the right eye of said user when said user wearing said main body on his or her head moves his or her straight-looking right eye down at a predetermined angle equal to or larger than 20 degrees, and

said left-eye display means is provided in such a manner that said image is caught by the left eye of said user when said user wearing said main body on his or her head moves his or her

straight-looking left eye down at a predetermined angle equal to or larger than 20 degrees,

with said right-eye display means or said left-eye display means, each of which is formed as an integrated unit, being held with said right-eye holding means or said left-eye holding means.

14. The image display device as claimed in Claim 13, wherein said optical system comprises lenses for focusing an image displayed on said display screen to the retina of the right or left eye of said user,

the central axis of the lens for the right eye generally coinciding with the line of sight of the right eye of said user when the user moves his or her right eye down at said predetermined angle equal to or larger than 20 degrees, and

the central axis of the lens for the left eye generally coinciding with the line of sight of the left eye of said user when the user moves his or her left eye down at said predetermined angle equal to or larger than 20 degrees.

15. A display device which is a component of an image display device, said display device serving as right-eye display means or left-eye display means for said image display device, said image display device comprising:

a main body that can be worn on the head of a user;

right-eye display means for displaying a predetermined image, said right-eye display means being provided on or in said main body in such a manner that said image is blurred or beyond the visible range of the right eye of said user when said user wearing said main body on his or her head looks straight ahead, and that said

image is caught by the right eye of said user when said user moves his or her straight-looking right eye away; and

left-eye display means for displaying a predetermined image, said left-eye display means being provided on or in said main body in such a manner that said image is blurred or beyond the visible range of the left eye of said user when said user wearing said main body on his or her head looks straight ahead, and that said image is caught by the left eye of said user when said user moves his or her straight-looking left eye away;

good visibility being obtained for both eyes when said user wearing said main body on his or her head looks straight ahead,

said right-eye display means and/or said left-eye display means being provided in such a manner it/they can be positioned and fixed to said main body at a certain position or positions suited for the right and left eyes of said user,

said display device comprising at least a display screen on which images are shown and an optical system to guide an image shown on said display screen to the eye(s) of said user, said display device being formed as an integrated unit.

16. A main body which is a component of an image display device, said main body comprising:

a main body that can be worn on the head of a user;

right-eye display means for displaying a predetermined image, said right-eye display means being provided on or in said main body in such a manner that said image is blurred or beyond the visible range of the right eye of said user when said user wearing said main body on his or her head looks straight ahead, and that said image is caught by the right eye of said user when said user moves

his or her straight-looking right eye away; and

left-eye display means for displaying a predetermined image, said left-eye display means being provided on or in said main body in such a manner that said image is blurred or beyond the visible range of the left eye of said user when said user wearing said main body on his or her head looks straight ahead, and that said image is caught by the left eye of said user when said user moves his or her straight-looking left eye away;

good visibility being obtained for both eyes when said user wearing said main body on his or her head looks straight ahead,

said right-eye display means and/or said left-eye display means being provided in such a manner it/they can be positioned and fixed to said main body at a certain position or positions suited for the right and left eyes of said user, and further comprising:

at least a display screen on which images are shown and an optical system to guide an image shown on said display screen to the eye(s) of said user,

said main body being adapted to be worn on the head of said user,

said main body comprising right-eye holding means and left-eye holding means for firmly holding said right-eye display means and said left-eye display means, each of which is formed as an integrated unit, at appropriate positions.